

INNOLUX DISPLAY CORPORATION

TT260GW01 V.0 LCD MODULE SPECIFICATION

- () Preliminary Specification
(●) Final Specification

Approved by	Checked by	Prepared by
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INNOLUX DISPLAY CORPORATION

TT260GW01 V.0 LCD MODULE SPECIFICATION

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Record of Revision

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Version	Revise Date	Page	Content																													
1.0	2009/9/3		Pre Spec																													
2.0	2009/12/31	5	Weight change to 3300g, NTSC change to 70%.																													
	2009/12/31	10	<table><tr><td rowspan="3">Input Current.</td><td>Black.</td><td>I_{cc}.</td><td>-.</td><td>350.</td><td>-.</td><td rowspan="3">mA.</td></tr><tr><td>White.</td><td>I_{cc}.</td><td>-.</td><td>250.</td><td>-.</td></tr><tr><td>Mosaic.</td><td>I_{cc}.</td><td>-.</td><td>350.</td><td>-.</td></tr></table>				Input Current.	Black.	I _{cc} .	-.	350.	-.	mA.	White.	I _{cc} .	-.	250.	-.	Mosaic.	I _{cc} .	-.	350.	-.									
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	2009/12/31	15	<table><tr><td>Light Bar Input Voltage</td><td>VLED.</td><td>-.</td><td>118.4.</td><td>130.24.</td><td>VDC.</td></tr><tr><td>Light Bar Input Current</td><td>ILED.</td><td>-.</td><td>140.</td><td>-.</td><td>mA_{DC}.</td></tr><tr><td>Power Consumption.</td><td>PLED.</td><td>-.</td><td>33.15.</td><td>36.5.</td><td>W.</td></tr><tr><td>LED Life Time.</td><td>LBL.</td><td>25000.</td><td>30000.</td><td>---</td><td>Hrs.</td></tr></table>				Light Bar Input Voltage	VLED.	-.	118.4.	130.24.	VDC.	Light Bar Input Current	ILED.	-.	140.	-.	mA _{DC} .	Power Consumption.	PLED.	-.	33.15.	36.5.	W.	LED Life Time.	LBL.	25000.	30000.	---	Hrs.		
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	2009/12/31	16	<table><tr><td>Brightness (Center).</td><td>YL.</td><td>-.</td><td>240.</td><td>300.</td><td>-.</td></tr><tr><td rowspan="8">Color chromaticity(CIE).</td><td>Wx.</td><td rowspan="8">$\theta = 0^{\circ}$.</td><td rowspan="8">-0.03.</td><td>0.28^{±2}.</td><td rowspan="8">+0.03.</td></tr><tr><td>Wy.</td><td>0.29^{±2}.</td></tr><tr><td>Rx.</td><td>0.627.</td></tr><tr><td>Ry.</td><td>0.347.</td></tr><tr><td>Gx.</td><td>0.301.</td></tr><tr><td>Gy.</td><td>0.635.</td></tr><tr><td>Bx.</td><td>0.154.</td></tr><tr><td>By.</td><td>0.055.</td></tr></table>				Brightness (Center).	YL.	-.	240.	300.	-.	Color chromaticity(CIE).	Wx.	$\theta = 0^{\circ}$.	-0.03.	0.28 ^{±2} .	+0.03.	Wy.	0.29 ^{±2} .	Rx.	0.627.	Ry.	0.347.	Gx.	0.301.	Gy.	0.635.	Bx.	0.154.	By.	0.055.
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	2009/12/31	19	<table><tr><td>MTBF Demonstration.</td><td>25,000 hours with confidence level 50%.</td></tr></table>				MTBF Demonstration.	25,000 hours with confidence level 50%.																								
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A. General Specification

NO.	Item	Specification	Remark
1	Display resolution (pixel)	1366(H) X 768(V), HD	
2	Active area (mm)	575.769 (H) x 323.712(V)	
3	Screen size (inch)	26 inches diagonal	
4	Pixel pitch (mm)	0.4215 (H) X 0.4215 (V)	
5	Color configuration	R, G, B vertical stripe	
6	Overall dimension (mm)	626 (W) X 373 (H) X 14.5(D) (Typ.)	
7	Weight (g)	3300 (Typ.)	
8	Surface treatment	Anti-Glare, Haze=25%, Hard coating (3H)	Note 1
9	Input color signal	8 bit LVDS	
10	Display colors	16.7M (6 bit with Hi-FRC)	
11	Color Saturation	70% NTSC	
12	Optimum viewing direction	6 o'clock	
13	Backlight	Side-light bar (White LED)	
14	RoHS & Halogen Free	RoHS & Halogen Free compliance	
15	TCO'06	TCO'06 Compliance	Note 2

Note 1: Glare Option available

Note 2: Only Anti-Glare model can meet TCO'06 compliance.



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B. Electrical Specifications

1. Pin Assignment

1.1. LVDS Connector

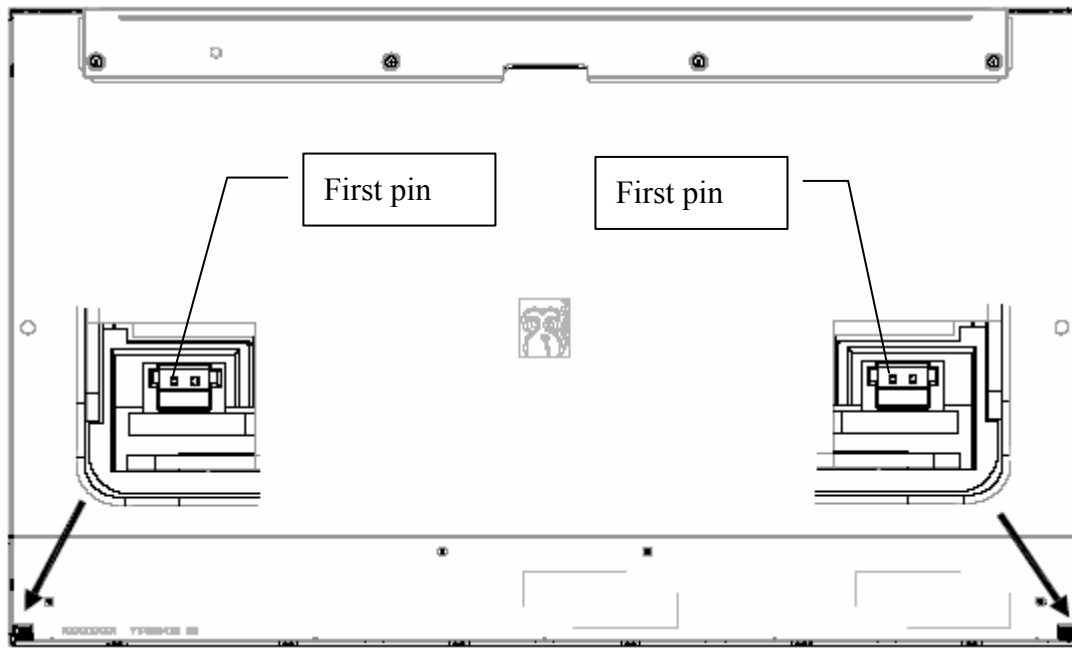
FI-X30SSL-HF_SJ038319 or mechanical interface equivalent connector.

No	Symbol	Description
1	VCC	Power supply (+12V)
2	VCC	Power supply (+12V)
3	VCC	Power supply (+12V)
4	VCC	Power supply (+12V)
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	NC	No Connection
10	NC	No Connection
11	GND	Ground
12	RxE0-	Negative transmission data of pixel 0
13	RxE0+	Positive transmission data of pixel 0
14	GND	Ground
15	RxE1-	Negative transmission data of pixel 1
16	RxE1+	Positive transmission data of pixel 1
17	GND	Ground
18	RxE2-	Negative transmission data of pixel 2
19	RxE2+	Positive transmission data of pixel 2
20	GND	Ground
21	RXCLK-	Negative of clock
22	RXCLK+	Positive of clock
23	GND	Ground
24	RxE3-	Negative transmission data of pixel 3
25	RxE3+	Positive transmission data of pixel 3
26	GND	Ground
27	NC	No Connection
28	NC	No Connection
29	GND	Ground
30	GND	Ground



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**Rear View of LCM**

1.2 Recommend Connector for Backlight Unit

This connector is mounted on the monitor system board for LED light-bar FFC mating.

Connector Name/Designation	Match Connector
Manufacturer	Entery INDUSTRIAL CO.,LTD
Mating type part number	4031K-F02N-01R



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1.3 LED Light Bar Connector

Left Connector Pin Assignment:

Pin No	Symbol	Description
1	IRLED1	LED current sense for string
2	VLED	LED power supply

Right Connector Pin Assignment:

Pin No	Symbol	Description
1	IRLED1	LED current sense for string
2	VLED	LED power supply

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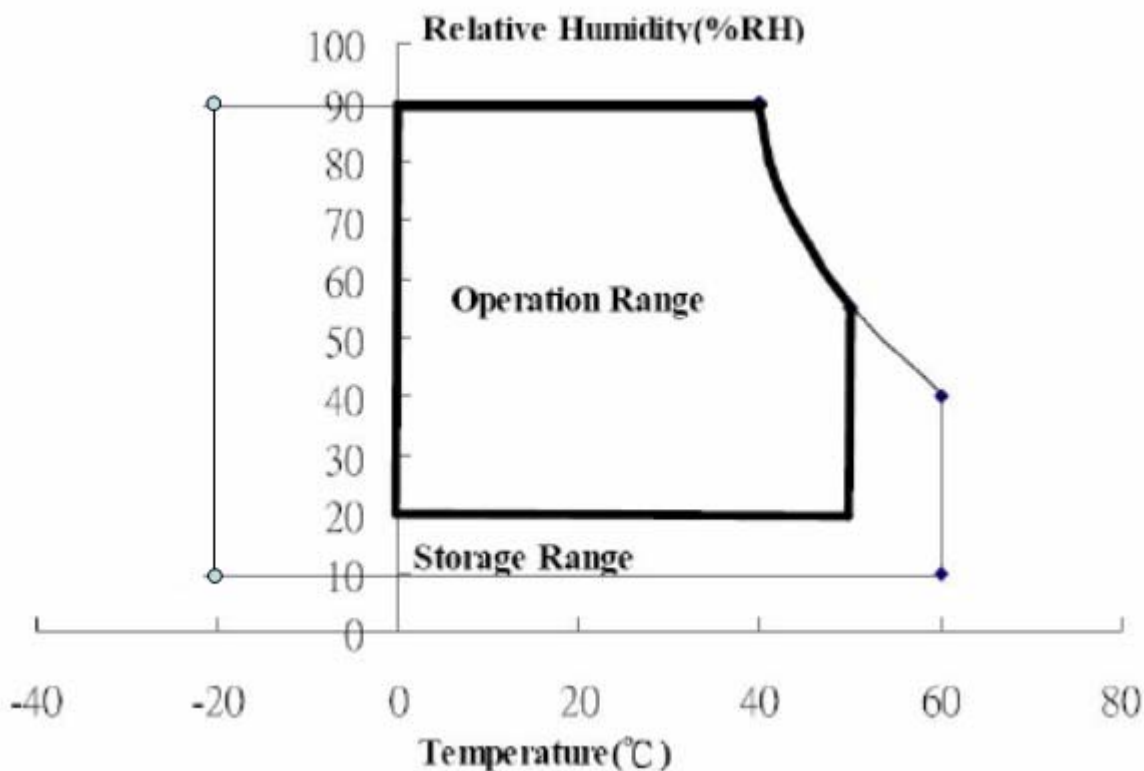
2. Absolute Maximum Ratings

Parameter	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Power voltage	V_{CC}	-0.3	-	13	V	At 25°C
Input signal voltage	V_{LH}	-0.3	-	3.6	V	At 25°C
Operating temperature	T_{op}	0	-	50	°C	Note 1
Storage temperature	T_{ST}	-20	-	60	°C	Note 2
Operating Humidity	H_{op}	20	-	90	%RH	Note 1
Storage Humidity	H_{ST}	10	-	90	%RH	Note 1

Note 1: The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less.

At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C.

Note 2: The unit should not be exposed to corrosive chemicals.



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3. Electrical Characteristics

a. Typical operating conditions

Item		Symbol	Min.	Typ.	Max.	Unit	Remark
Input Voltage		V_{CC}	11.4	12	12.6	V	
Permissive Power Input Ripple		V_{RF}	-	-	300	mVp-p	
Input Current	Black	I_{CC}	-	350	-	mA	Note 1
	White	I_{CC}	-	250	-		Note 2
	Mosaic	I_{CC}	-	350	-		Note 3
Rush Current		I_{Rush}	-	1.6	3	A	Note 4
Logic Input Voltage LVDS: IN+, IN-	Common Mode Voltage	VCM	1.125	1.2	1.375	V	
	Differential Input Voltage	VID	100	-	600	mV	
	Threshold Voltage (High)	VTH	+100	-	-	mV	Note 5, 6
	Threshold Voltage (Low)	VTL	-	-	-100	mV	Note 5, 6

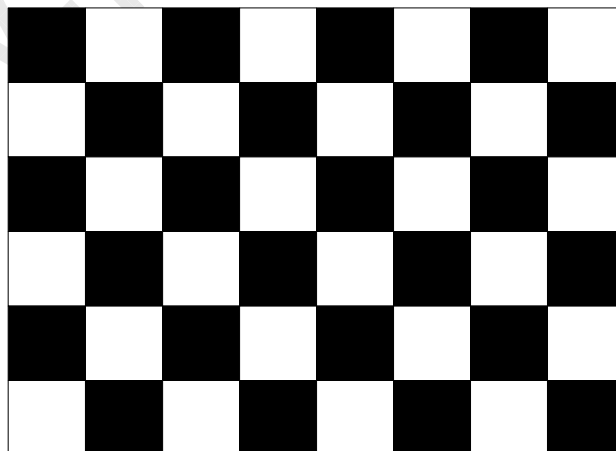
Note 1: The specified current is under the $V_{CC}=12$, 25 °C, $f_v=60$ Hz (frame frequency) condition whereas black pattern is displayed.

Note 2: The specified current is under the $V_{CC}=12$, 25 °C, $f_v=60$ Hz (frame frequency) condition whereas white pattern is displayed.

Note 3: The specified current is under the $V_{CC}=12$, 25 °C, $f_v=60$ Hz (frame frequency) condition whereas mosaic pattern (black & white [8*6]) is displayed.

White: 255 Gray

Black: 0 Gray

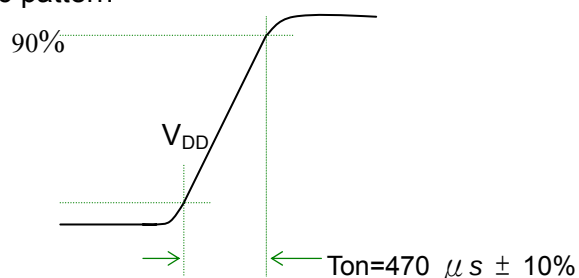


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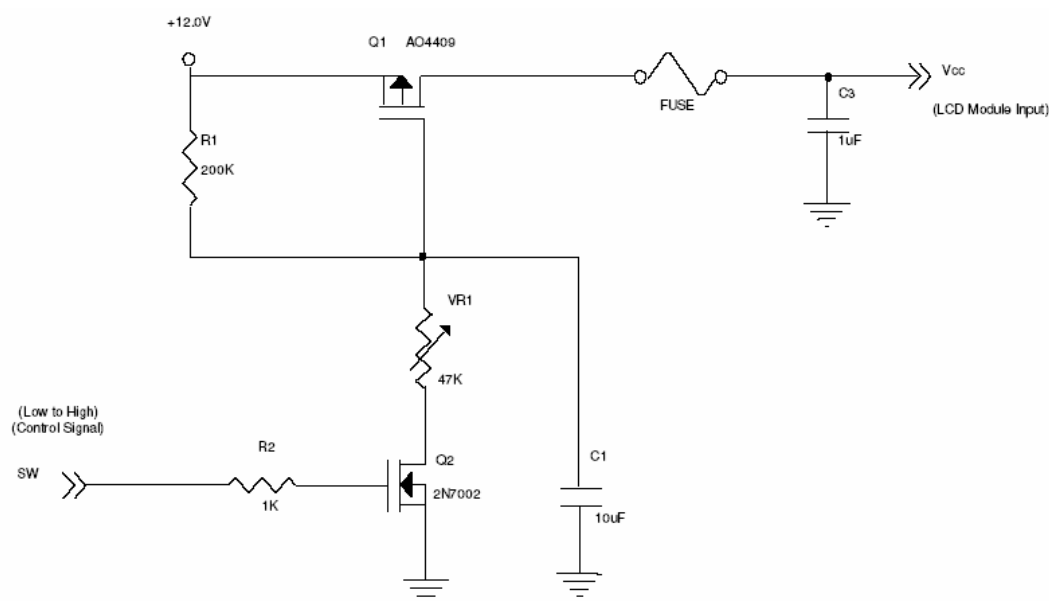
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Note 4: Test condition:

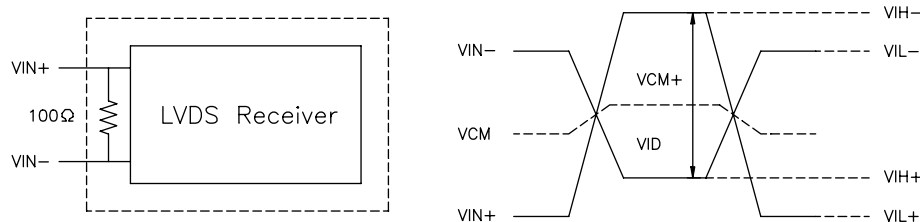
- (1). $V_{DD} = 12V$, V_{DD} rising time = $470 \mu s \pm 10\%$
- (2). Pattern: Mosaic pattern



(3) Test circuit

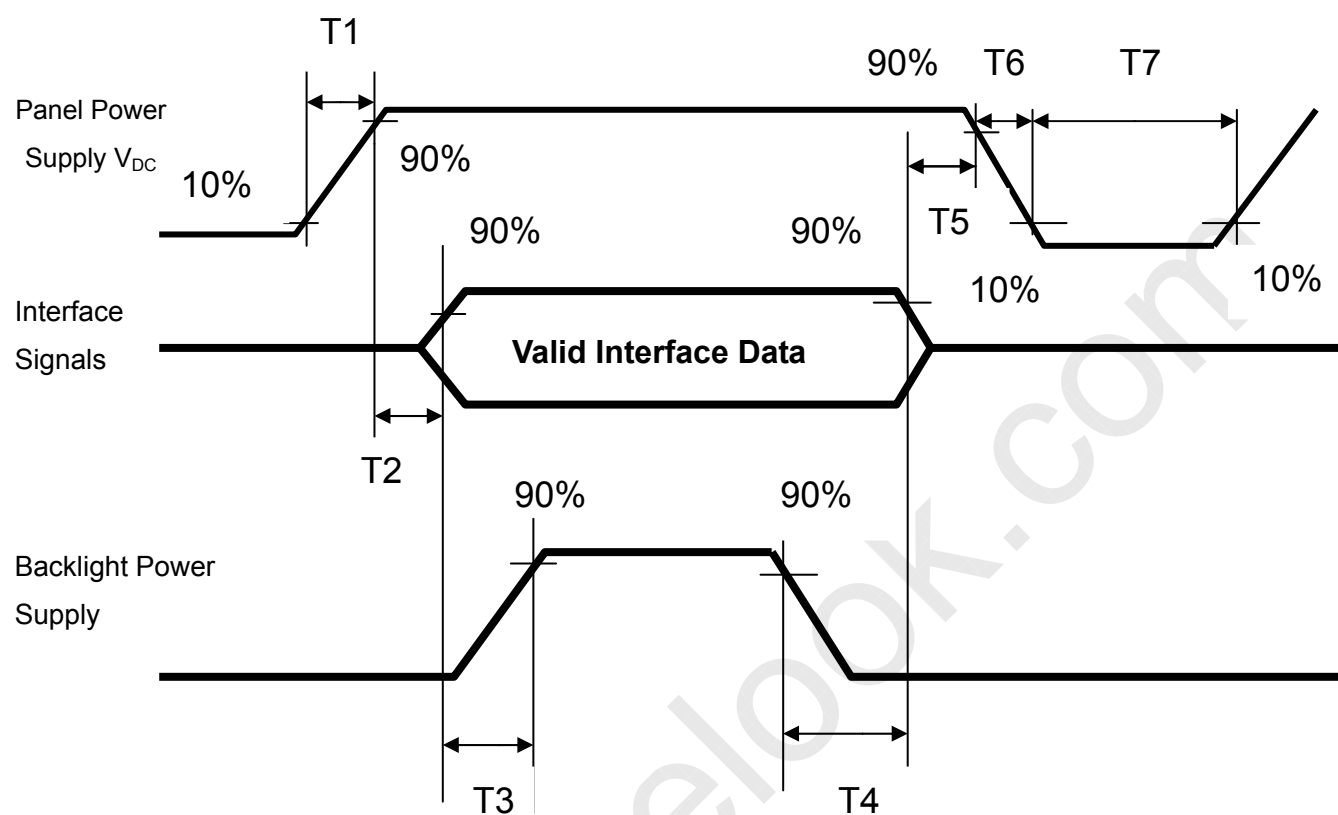


Note 5: LVDS signal definition

 VIN_+ = Positive differential DATA & CLK Input VIN_- = Negative differential DATA & CLK Input $VID = VIN_+ - VIN_-$, $\Delta VCM = |VCM_+ - VCM_-|$, $\Delta VID = |VID_+ - VID_-|$, $VID_+ = |VIH_+ - VIH_-|$, $VID_- = |VIL_+ - VIL_-|$, $VCM = (VIN_+ + VIN_-)/2$, $VCM_+ = (VIH_+ + VIH_-)/2$, $VCM_- = (VIL_+ + VIL_-)/2$,

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Note 6: Power on sequence for LCD V_{DD} 

Parameter	Value			Unit
	Min	Typ.	Max	
T1	0.1	-	10	ms
T2	0	30	50	ms
T3	200	250	-	ms
T4	100	250	-	ms
T5	0	20	50	ms
T6	0.1	-	10	ms
T7	1000	-	-	ms



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b. Display Color vs. Input Data Signals

The brightness of each primary color (red, green and blue) is based on the 8-bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

Color		Input color data																			
		Red								Green								Blue			
		MSB				LSB				MSB				LSB				MSB			
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4
Basic colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
	Blue(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Red	Red(000) dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(001)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(002)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Red(253)	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255) bright	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Green	Green(000)dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Green(002)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Green(253)	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0
	Green(254)	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
	Green(255)bright	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0
Blue	Blue(000) dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue(002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Blue(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	Blue(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	Blue(255) bright	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1

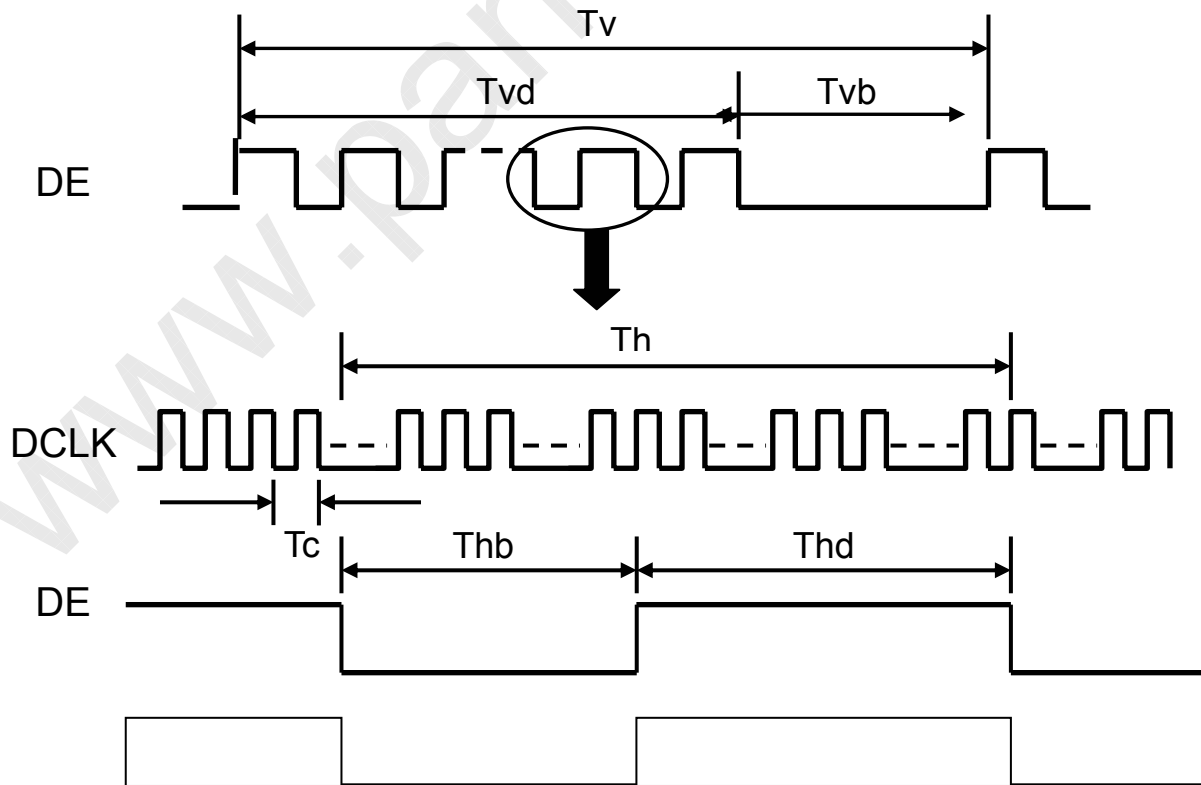
c. Input Signal Timing

Support Input Timing Table

	Item	Description	Min.	Typ.	Max.	Unit
Clock	Dclk	period	11.43	13.89	16.7	nS
		frequency	60	76	82	MHz
Vertical	T _{V_TOTAL}	V total line number	778	806	888	T _{H_TOTAL}
	T _{V_DATA}	Data duration	768	768	768	T _{H_TOTAL}
	T _{VB}	V-blank	10	38	120	T _{H_TOTAL}
	f _V	frequency	47	50	53	Hz
			57	60	63	Hz
Horizontal	T _{H_TOTAL}	H total pixel number	1442	1560	1936	DClk
	T _{H_DATA}	Data duration	1366	1366	1366	DClk
	T _{HB}	H-blank	76	194	570	DClk

Note: Because this module is operated by DE mode only, Hsync and Vsync input signals should be set to low Logic level or ground. Otherwise, this module would operate abnormally.

INPUT SIGNAL TIMING DIAGRAM





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d. Display Position

D(1,1)	D(2,1)		D(683,1)		D(1365,1)	D(1366,1)
D(1,2)	D(2,2)		D(683,2)		D(1365,2)	D(1366,2)
⋮	⋮		⋮		⋮	⋮
D(1,384)	D(2,384)		D(683,384)		D(1365,384)	D(1366,384)
⋮	⋮		⋮		⋮	⋮
D(1,767)	D(2,767)		D(683,767)		D(1365,767)	D(1366,767)
D(1,768)	D(2,768)		D(683,768)		D(1365,768)	D(1366,768)

e. Backlight Unit

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Light Bar Input Voltage	VLED		118.4	130.24	VDC	(Duty 100%)
Light Bar Input Current	ILED		140	-	mADC	Note 1, 2, 3
Power Consumption	PLED		33.15	36.5	W	Note 4
LED Life Time	LBL	25,000	30,000	---	Hrs	Note 5

Note 1: There are two Light Bars, and the specified current is input LED chip 100% duty current.

Note 2: The sensing current of each string is 140mA.

Note 3: Each light bar have one current sensing strings, so that each light bar input current is 140mA.

Note 4: $PLED = ILED \times VLED \times 2$.

Note 5: The life time is determined as the time at which luminance of the LED becomes 50% of the initial brightness or not normal lighting at the current $I_{LED}=360mA$ on condition of continuous operating at $25\pm 2^{\circ}C$.



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C. Optical Specifications

Item	Symbol	Condition	Specification			Unit	Remark
			Min.	Typ.	Max.		
Response time	Tr	$\theta = 0^\circ$	-	1.3	-	ms	Note 2
	Tf		-	3.7	-		
	Tr+Tf		-	5	-		
Contrast ratio	CR	$\theta = 0^\circ$	800	1000	-		Note 1,3
Viewing angle	Top	$CR \geq 10$	70	80	-	deg.	Note 1,3,5
	Bottom	$CR \geq 10$	70	80	-		
	Left	$CR \geq 10$	75	85	-		
	Right	$CR \geq 10$	75	85	-		
Brightness (Center)	YL		250	300	-	nit	Note 1,4
Color chromaticity(CIE)	Wx	$\theta = 0^\circ$	-0.03	0.28	+0.03		Note 1
	Wy			0.29			
	Rx			0.627			
	Ry			0.347			
	Gx			0.301			
	Gy			0.635			
	Bx			0.154			
	By			0.055			
White uniformity (9 points)	δW		0.75	0.80	-		Note 1,6
Cross talk (Normal)	Ct		-	-	2%		Note 7

Note: Ambient temperature = 25°C.

To be measured in dark room after backlight warm up 10 minutes.

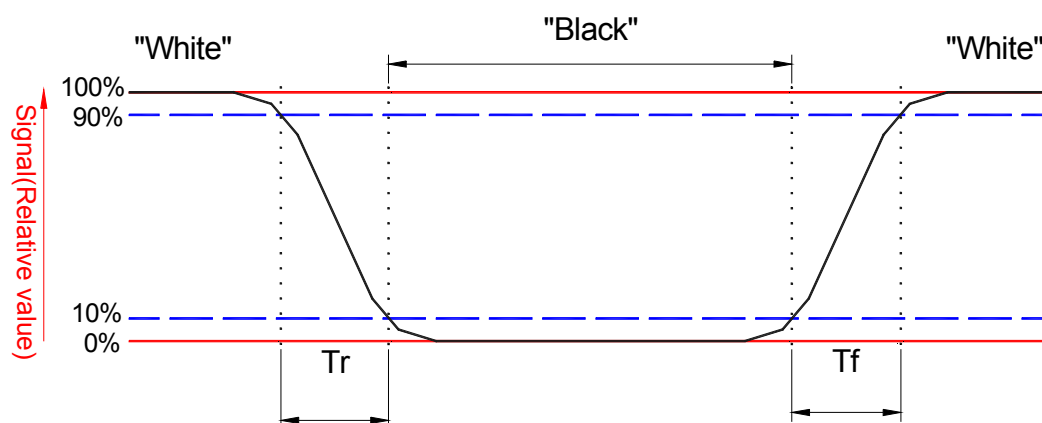
Note 1: To be measured with a viewing cone of 2° by Topcon luminance meter BM-5A.

Note 2: Definition of response time:

The output signals of BM-7 are measured when the input signals are changed from “Black” to “White” (falling time) and from “White” to “Black” (rising time), respectively. The response time interval is between the 10% and 90% of amplitudes. Refer to figure as below.

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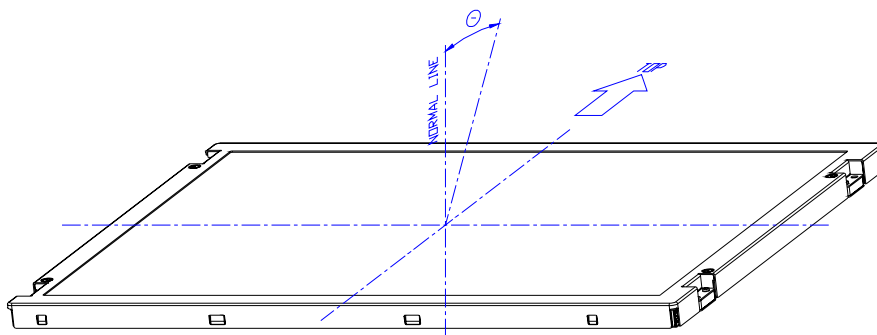
Note 3: Definition of contrast ratio:

Contrast ratio is calculated by the following formula.

$$\text{Contrast ratio (CR)} = \frac{\text{Brightness on the "white" state}}{\text{Brightness on the "black" state}}$$

Note 4: Driving conditions for LED Light Bar: $I_{\text{LED}}=150\text{mA}$.

Note 5: Definition of viewing angle



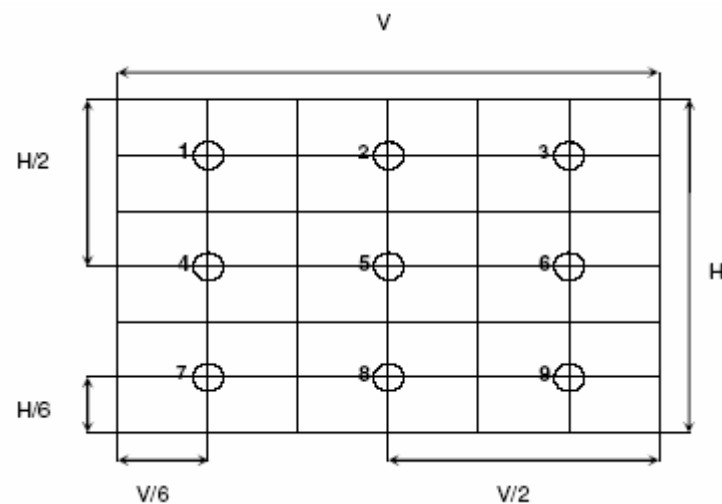
Note 6: Definition white uniformity:

Luminance are measured at the following nine points (P1~P9).

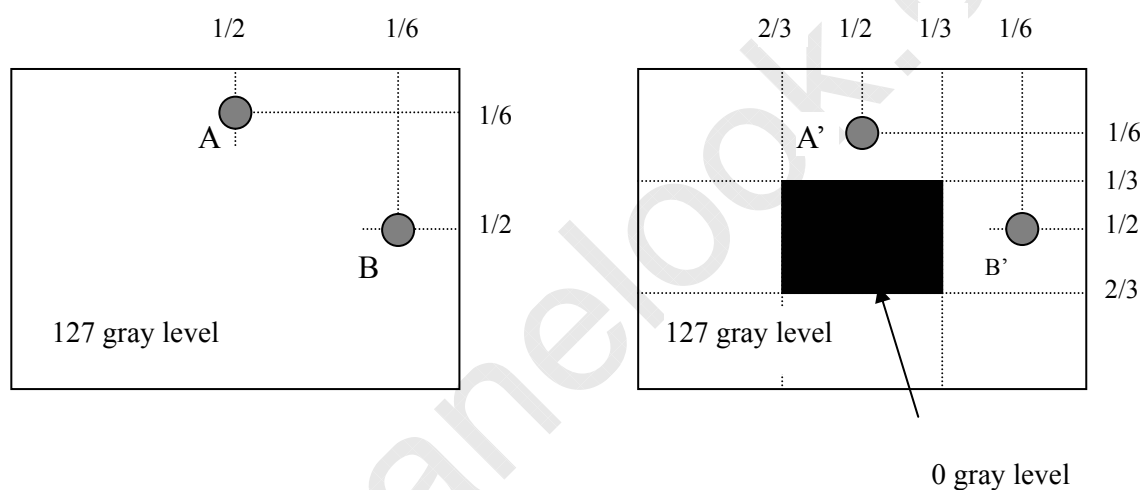
$$\delta_w = \frac{\text{Minimum Brightness of nine points (P1~P9)}}{\text{Maximum Brightness of nine points (P1~P9)}}$$

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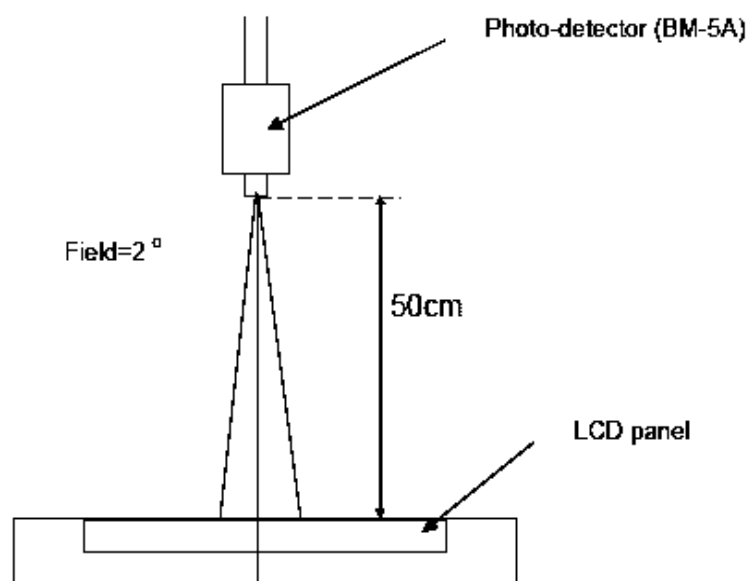
Note 7:



$$\frac{|L_A - L_{A'}|}{L_A} \times 100\% = 2\% \text{ max.}, L_A \text{ and } L_{A'} \text{ are brightness at location A and A'}$$

$$\frac{|L_B - L_{B'}|}{L_B} \times 100\% = 2\% \text{ max.}, L_B \text{ and } L_{B'} \text{ are brightness at location B and B'}$$

Note 10: Optical characteristic measurement setup.





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D. Reliability Test Items

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240Hrs	Note 1	Note 2
Low temperature storage	-20°C, 240Hrs	Note 1	Note 2
High temperature & high humidity operation	40°C, 90%RH, 240Hrs (No condensation)	Note 1	Note 2
High temperature operation	50°C, 240Hrs	Note 1	Note 2
Low temperature operation	0°C, 240Hrs	Note 1	Note 2
Thermal Shock (non-operation)	-20°C~60°C -20°C /1Hr, 60°C /1Hr, 100cycles	Note 1	Note 2
Electrostatic discharge (ESD) (non-operation)	Contact: +/-8kV, 150pF(330ohms), 10 times/1 point, 1 time/1 sec, total 16 points Air discharge: +/-15kV, 150pF(330ohms), 10 times/1 point, 1 time/1 sec, total 9 points	Note 1	Note 2
Vibration (non-operation)	Vibration level : 1.5G Bandwidth : 10-300Hz Waveform : sine wave, sweep rate : 10min 30 min for each direction X, Y, Z (1.5 Hrs in total)	Note 1	Note 2
Mechanical Shock (non-operation)	Shock level : 50G, 11ms Waveform : Half sine wave Direction : ±X, ±Y, ±Z One time each direction	Note 1	Note 2
MTBF Demonstration	25,000 hours with confidence level 90%		

Note 1: Pass: Normal display image with no obvious non-uniformity and no line defect.

Partial transformation of the module parts should be ignored.

Fail: No display image, obvious non-uniformity, or line defects.

Note 2: Evaluation should be tested after storage at room temperature for two hours.

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E. Safety

(1). Sharp Edge Requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

(2). Materials

a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

F. Display Quality

The display quality of the color TFT-LCD module should be in compliance with the Innolux's Incoming inspection standard.

G. Handling Precaution

The Handling of the TFT-LCD should be in compliance with the Innolux's handling principle standard.

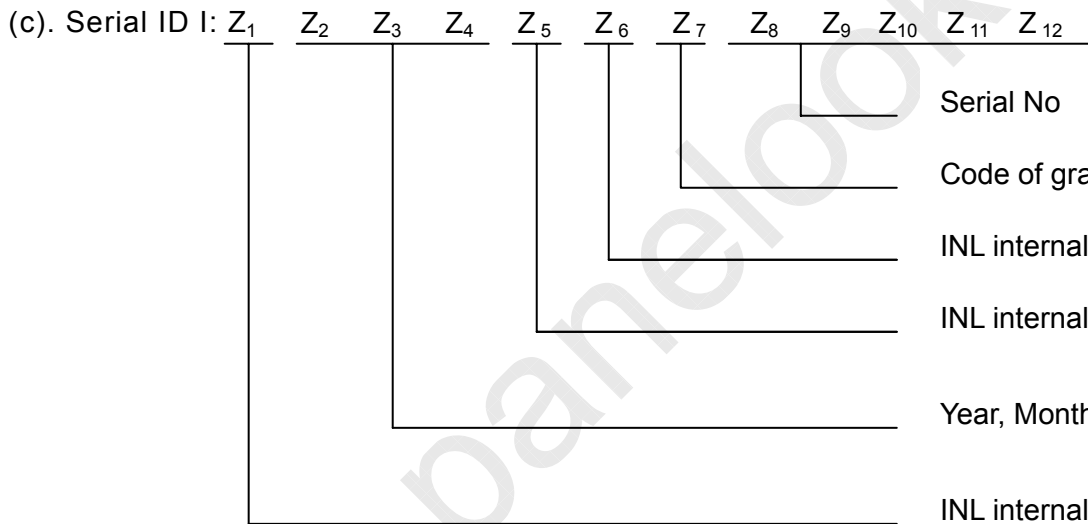
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H. Label**(1). Module Label**

(a). Model Number: TT260GW01

(b). Version: V.0



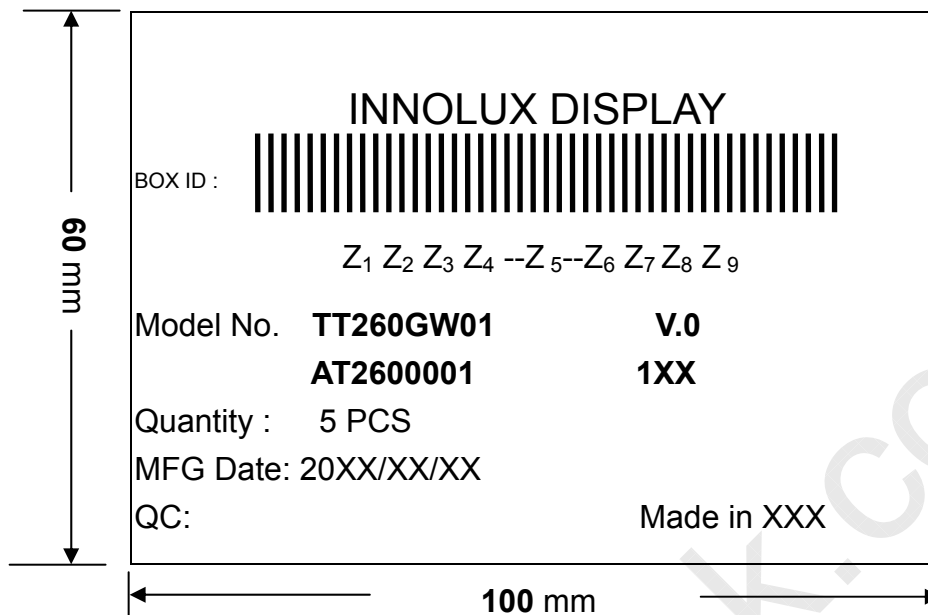
Serial ID includes the information as below:

1. Manufactured Date: Year: 0~9, for 2000~2009
2. Month: 1~9 & A~C for Jan. ~ Dec.
3. Date: 1~9 & A~Z (exclude I, O, Q, U) for 1st~31th
4. Code of grade: 1, 2, 3, 5, E
5. Serial No: Module manufacture sequence no

(d). Serial ID II (INL internal use)

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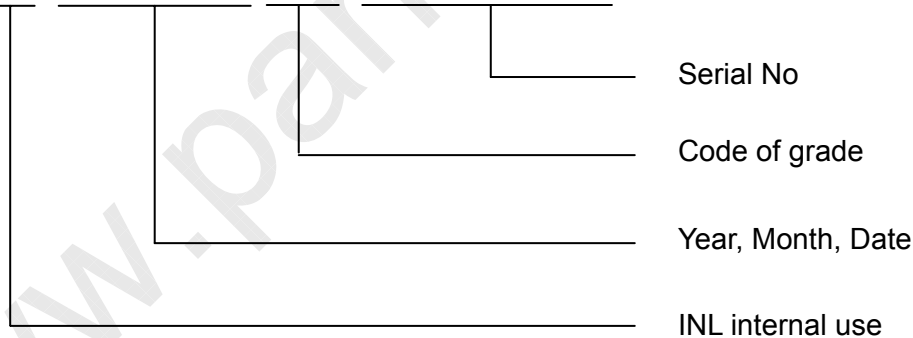
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(2) Carton Label

(a). Model Number: TT260GW01

(b). Version: V.0

(c). Packing quantity: 5 pcs

(d). Serial ID: Z₁ Z₂ Z₃ Z₄ Z₅ Z₆ Z₇ Z₈ Z₉

Serial ID includes the information as below:

(a). Manufactured Date: Year: 0~9, for 2000 ~2009

Month: 1~9 & A~C for Jan. ~ Dec.

Date: 1~9 & A~Z (exclude I, O, Q, U) for 1st~31th

(b). Code of grade: 1, 2, 3, 5, E

(c). Serial No: Module packing sequence no.

1. Mechanical Drawing

